

What is claimed is:

1. An image display system comprising:
at least two screens onto which images are projected;
at least one display device for displaying the images that are to be projected
5 onto the screens, a total number of display devices being smaller than a total
number of screens; and
at least one projection optical system for projecting the images displayed on
the display device onto the screens.

10 2. An image display system as claimed in claim 1,
wherein the projection optical system includes a mirror that reflects the
images from the display device toward the screens.

15 3. An image display system as claimed in claim 2,
wherein the display device displays in different orientations the images
projected by way of the mirror and the images projected not by way of the mirror.

20 4. An image display system as claimed in claim 1,
wherein the screens form inner wall faces of an observation room for
housing an observer.

5. An image display system as claimed in claim 4,
wherein the display device is arranged outside the observation room.

6. ~~An image display system as claimed in claim 1,~~
wherein a total number of projection optical systems is equal to the total
number of display devices.

5 7. An image display system as claimed in claim 6,
wherein the display device displays on a time-division basis the images to be
projected onto the screens.

10 8. An image display system as claimed in claim 7,
wherein the projection optical system includes a shutter that is opened and
closed in synchronism with switching of the images displayed on the display
device.

15 9. An image display system as claimed in claim 1,
wherein a total number of projection optical systems is equal to the total
number of screens.

20 10. An image display system as claimed in claim 9,
wherein the display device displays simultaneously the images projected
onto the screens.

11. A method of building an image display system comprising:
a step of installing at least two screens onto which images are projected;
a step of installing at least one display device for displaying the images that

are to be projected onto the screens, a total number of display devices being smaller than a total number of screens;

a step of installing at least one projection optical system for projecting the images displayed on the display device onto the screens, and

5 a step of projecting the images displayed on the display device through the projection optical system onto the screens.

12. A method of building an image display system as claimed in claim 11, wherein the projection optical system includes a mirror that reflects the
10 images from the display device toward the screens.

13. A method of building an image display system as claimed in claim 12, wherein, in the step of projecting the images, the display device displays in different orientations the images projected by way of the mirror and the images
15 projected not by way of the mirror.

14. A method of building an image display system as claimed in claim 11, wherein, in the step of installing the screens, the screens form inner wall faces of an observation room for housing an observer.
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15. A method of building an image display system as claimed in claim 14, wherein, in the step of installing the display device, the display device is arranged outside the observation room.

16. ~~A method of building an image display system as claimed in claim 11,~~
wherein, in the step of installing the projection optical system, a total
number of projection optical systems installed is equal to the total number of
display devices.

17. A method of building an image display system as claimed in claim 16,
wherein, in the step of projecting the images, the display device displays on
a time-division basis the images to be projected onto the screens.

18. A method of building an image display system as claimed in claim 17,
wherein the projection optical system includes a shutter, and
wherein, in the step of projecting the images, the projection optical system
opens and closes the shutter in synchronism with switching of the images
displayed on the display device.

19. A method of building an image display system as claimed in claim 11,
wherein, in the step of installing the projection optical system, a total
number of projection optical systems installed is equal to the total number of
screens.

20. A method of building an image display system as claimed in claim 19,
wherein, in the step of projecting the images, the display device displays
simultaneously the images projected onto the screens.